

THE STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRANSPORTATION SOLUTIONS  
PLANS AND SPECIFICATIONS FOR

CONTRACT NUMBER- T201106803 CENTRAL MAINTENANCE  
FEDERAL AID NUMBER- NONE  
CONTRACT TITLE- MICROSURFACING CENTRAL AND SOUTH, FY 2011

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PLANS PREPARED BY:

*Paul Suran*  
DESIGN TECHNICIAN

DATE RECOMMENDED: 12/10/10

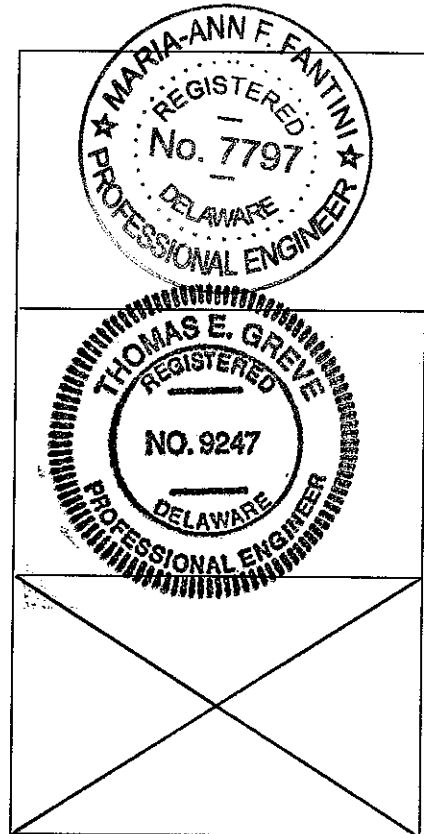
*Maria Fantini*  
CENTRAL MAINTENANCE ENGINEER

DATE RECOMMENDED: 12/13/10

*[Signature]*  
CENTRAL DISTRICT ENGINEER

DATE RECOMMENDED: \_\_\_\_\_

\_\_\_\_\_  
CHIEF ENGINEER



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LOCATION MAP

LOCATION 26

LOCATION 5

LOCATION 6

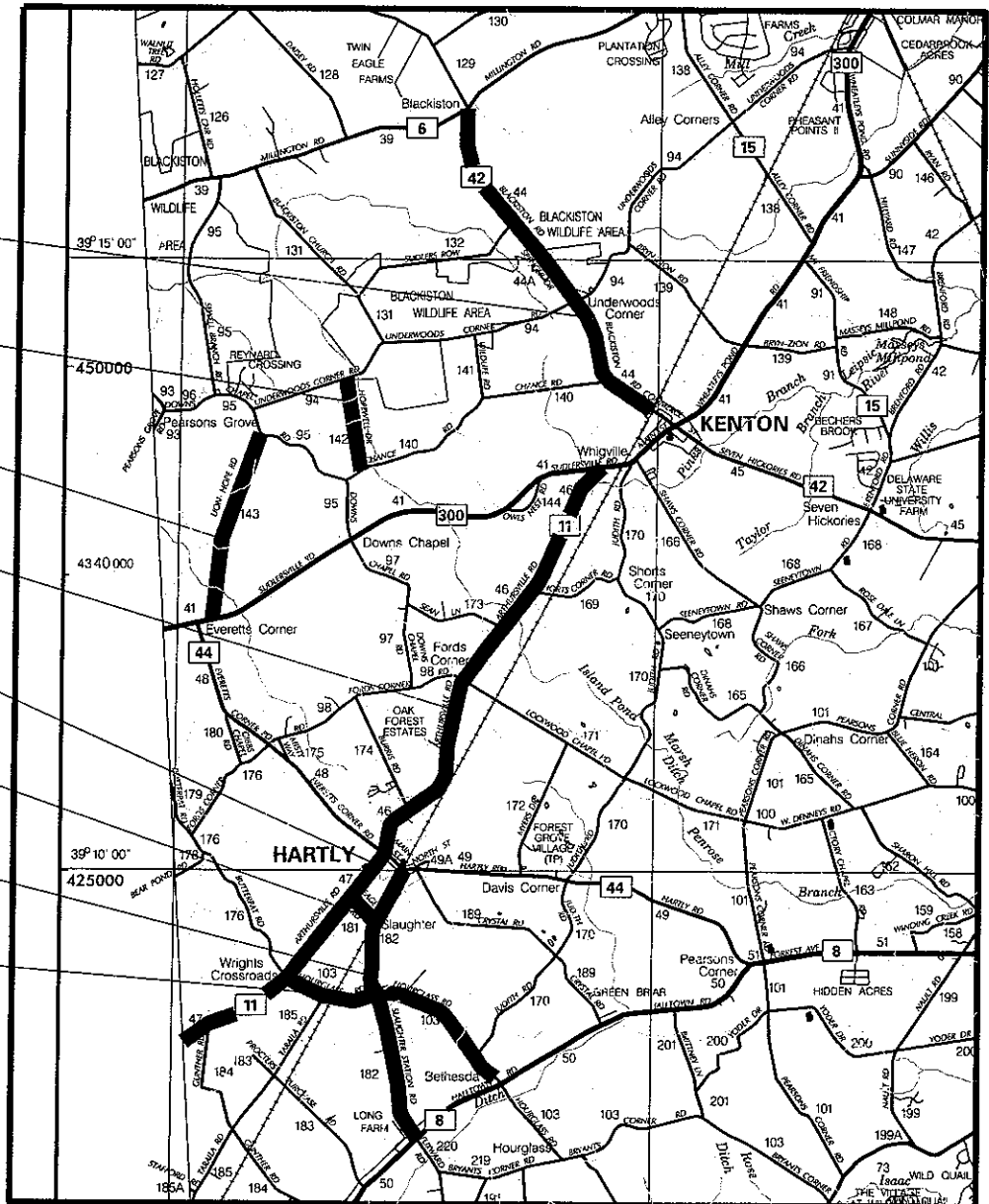
LOCATION 27

LOCATION 28

LOCATION 8

LOCATION 9

LOCATION 1



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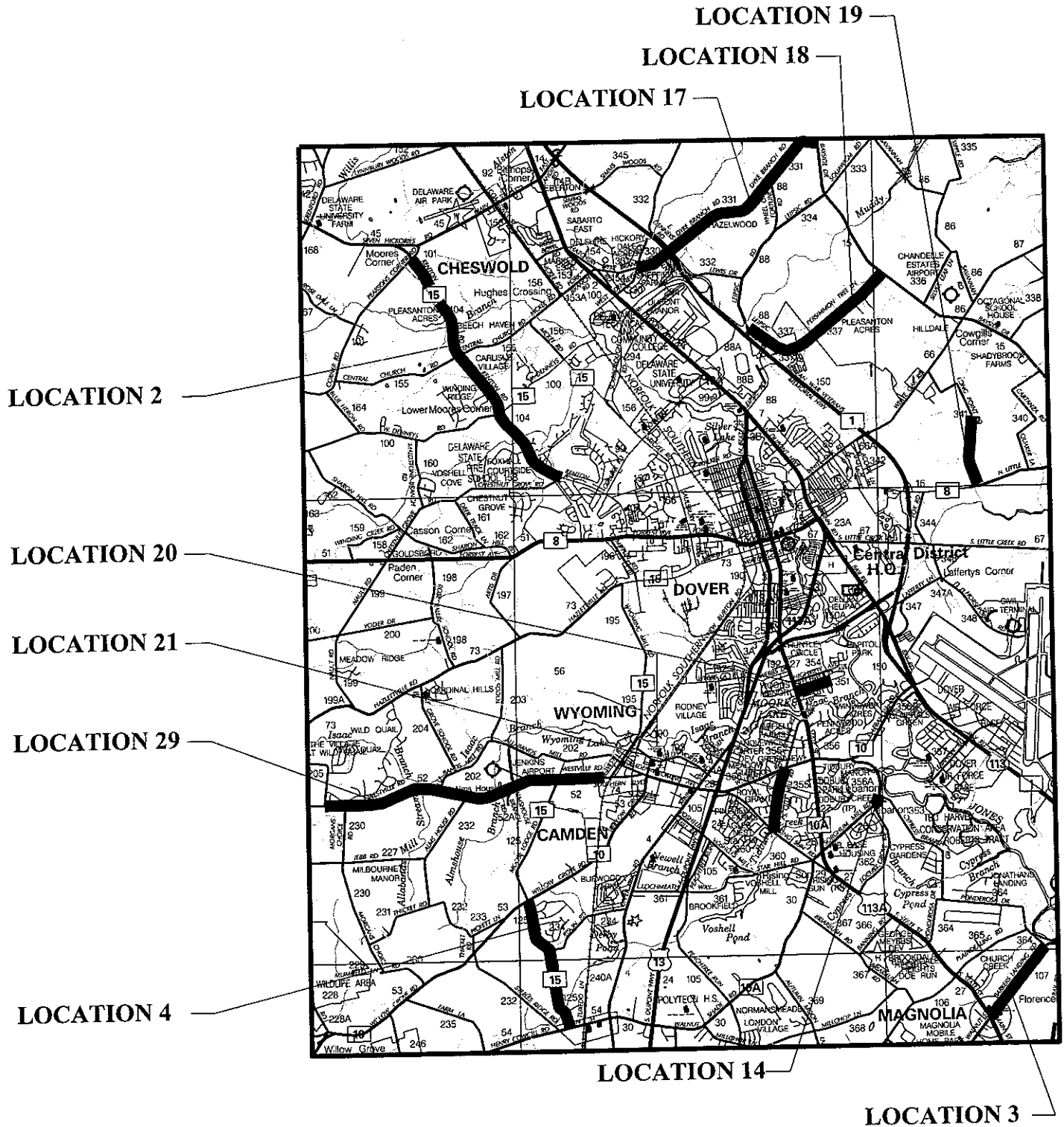
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LOCATION MAP



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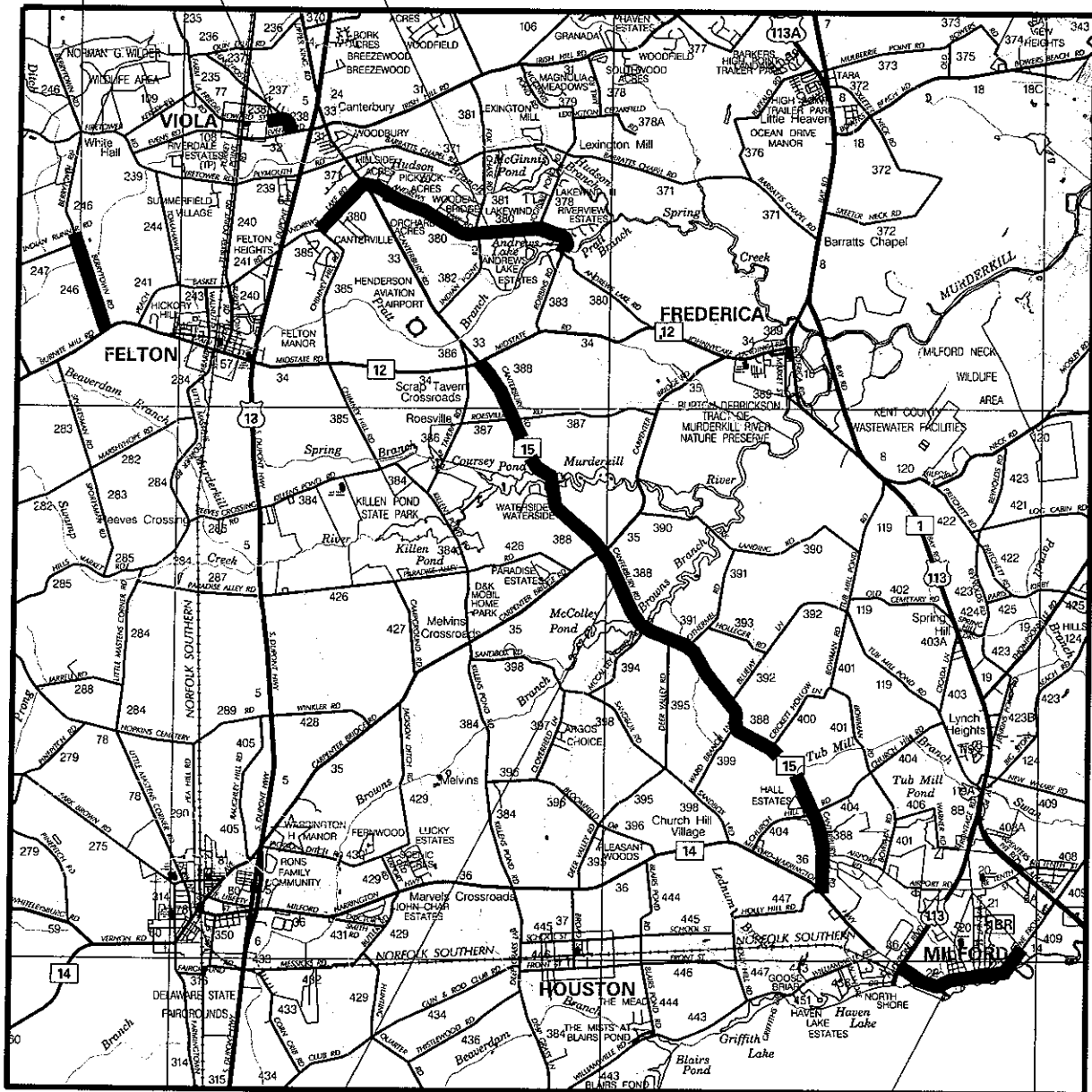
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LOCATION MAP

LOCATION 23  
LOCATION 11  
LOCATION 12



LOCATION 24  
LOCATION 10



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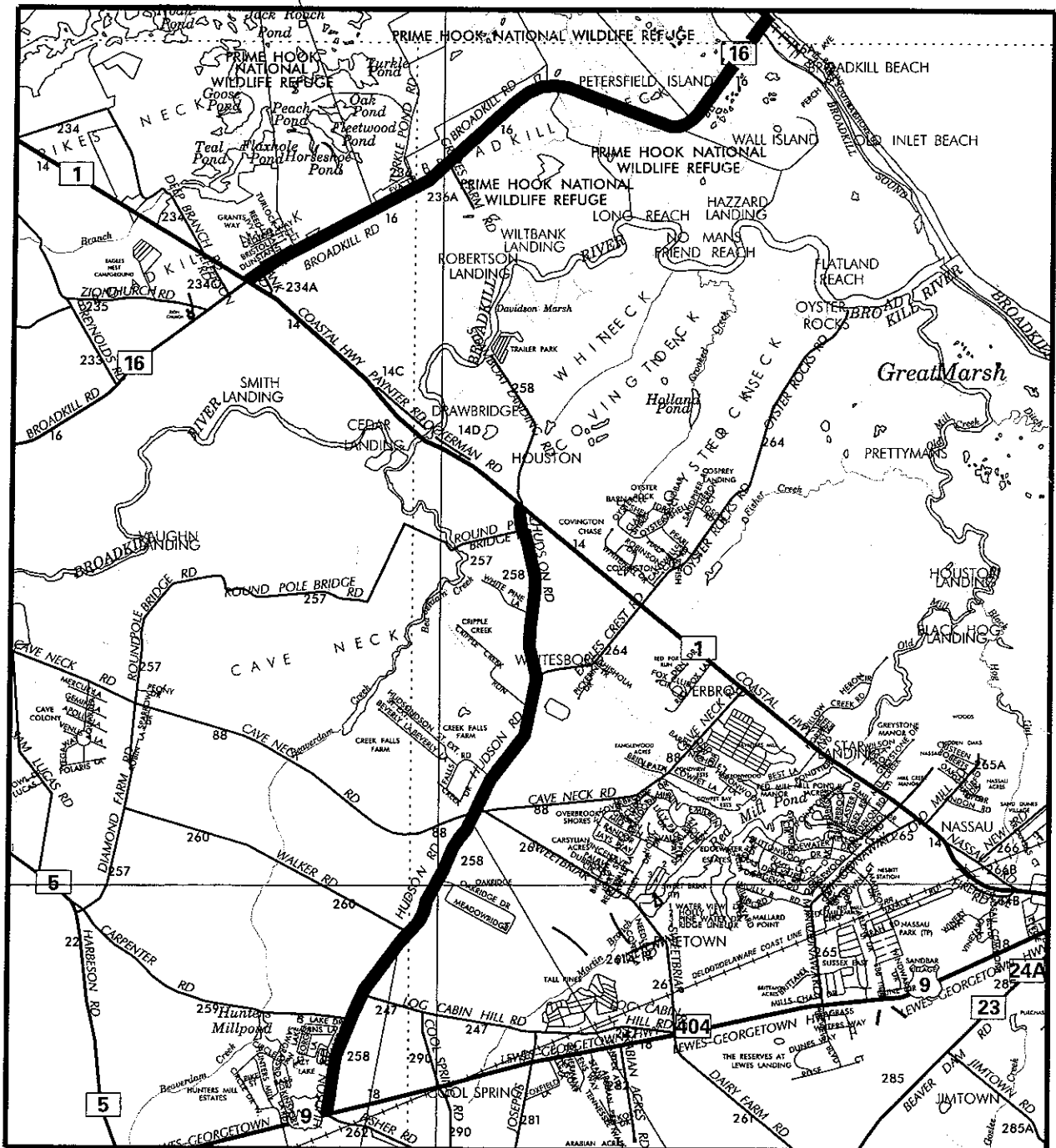
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LOCATION MAP

LOCATION 7



LOCATION 13

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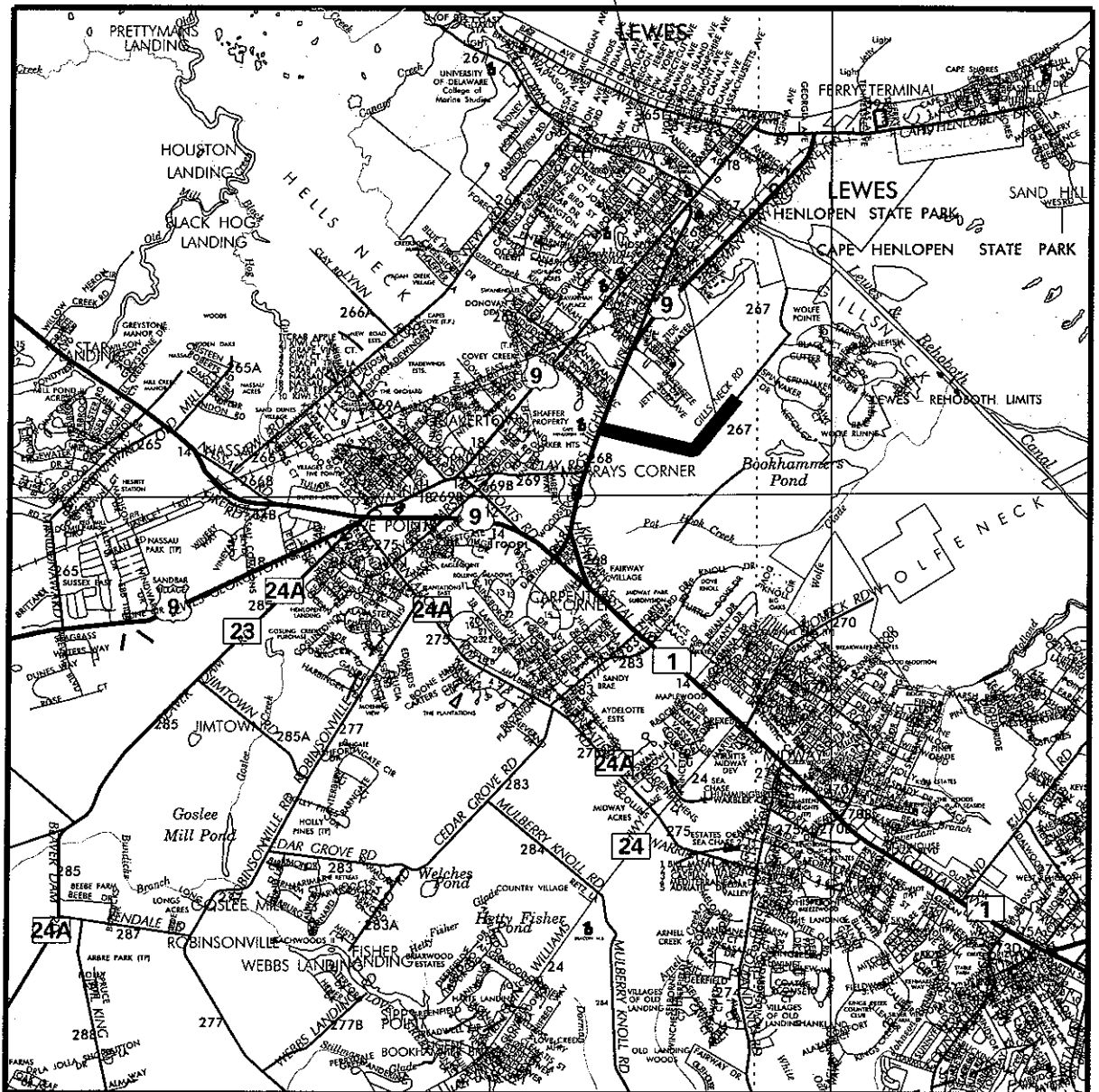
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LOCATION MAP

LOCATION 15



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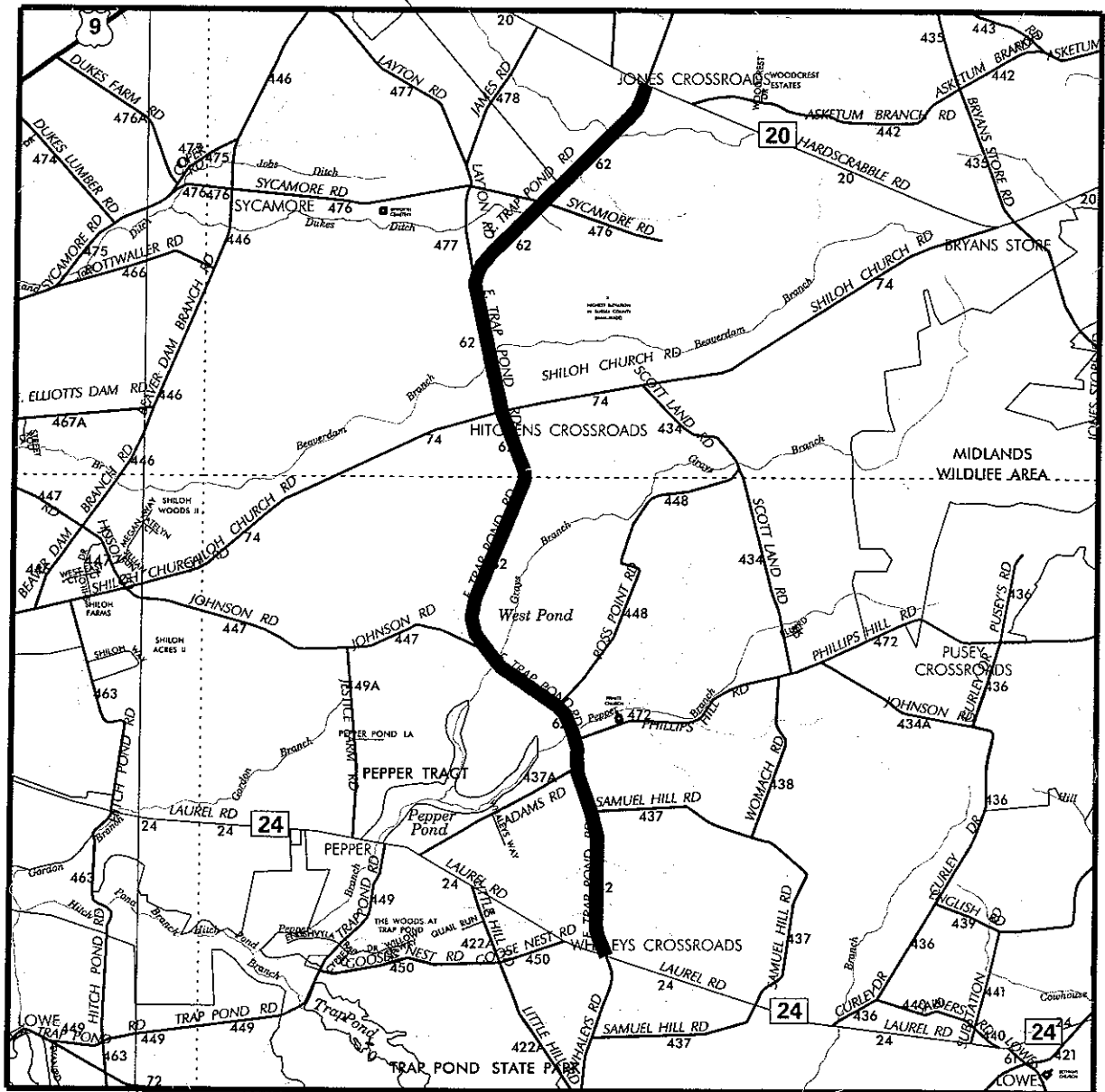
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LOCATION MAP

LOCATION 31



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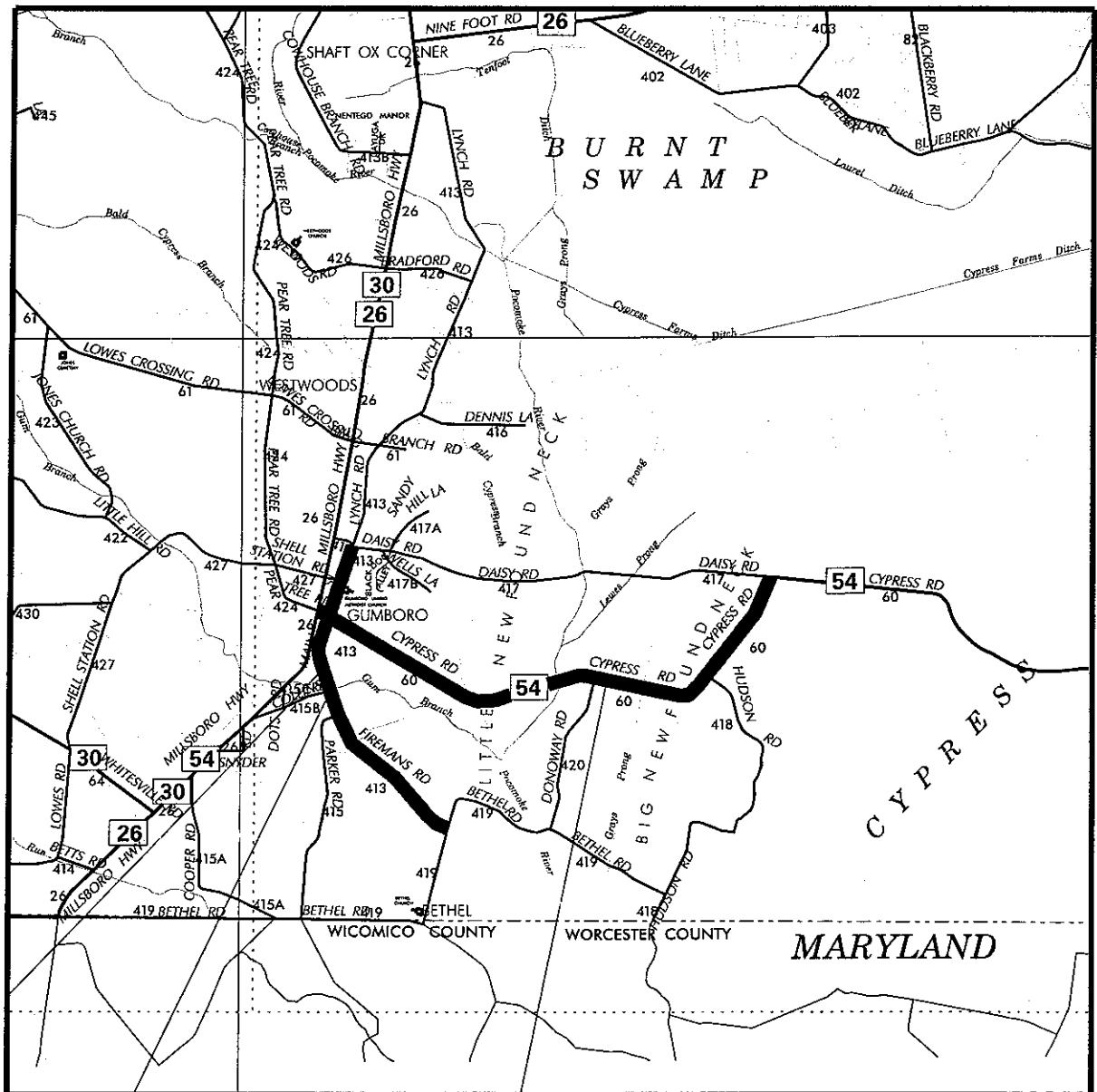
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LOCATION MAP



LOCATION 25

LOCATION 30

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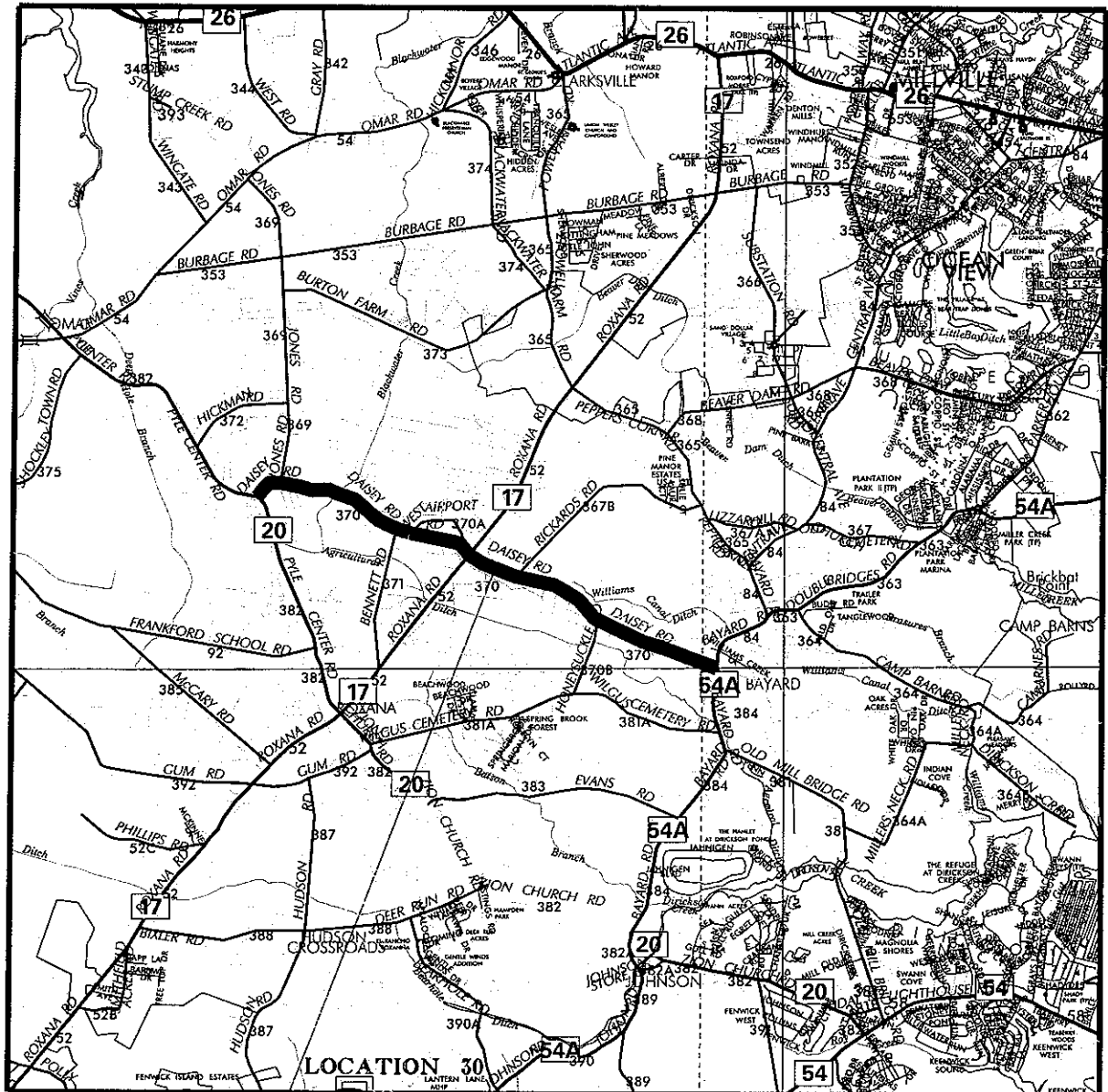
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LOCATION MAP



LOCATION 22

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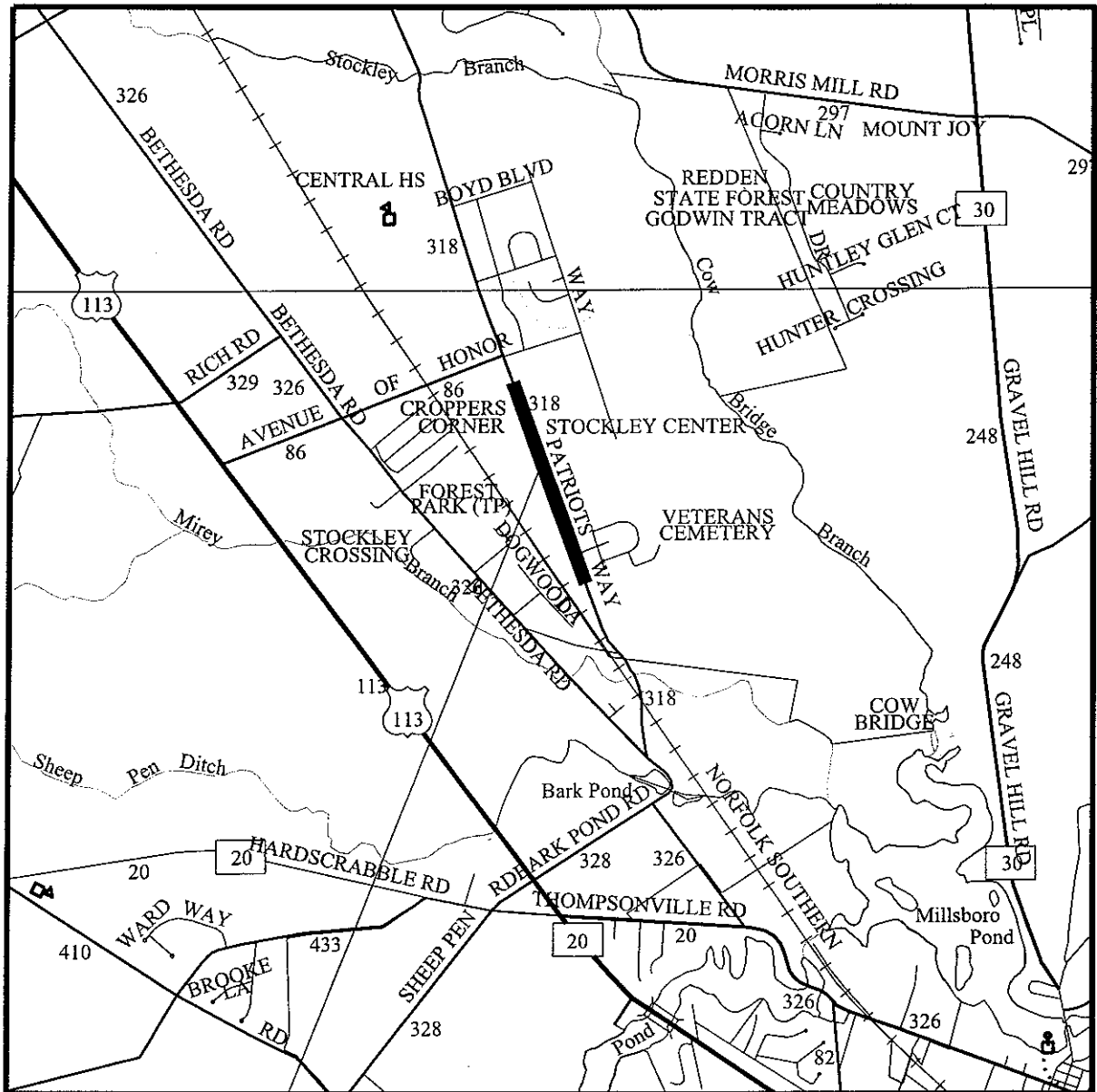
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LOCATION MAP



LOCATION 16

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NOTES

**GENERAL**

1. CONSTRUCTION OF THIS CONTRACT SHALL CONFORM TO DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED AUGUST 2001 AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, THE SPECIAL PROVISIONS, THE MOST RECENT STANDARD CONSTRUCTION DETAILS, AND THESE PLANS.

2. THE PURPOSE OF THIS CONTRACT IS TO MICROSURFACE EXISTING ROADS AND/OR STREETS LOCATED WITHIN THE BOUNDARIES OF KENT AND SUSSEX COUNTIES. DEPENDING ON FUND AVAILABILITY, THE DEPARTMENT RESERVES THE RIGHT TO ADD OR DELETE LOCATIONS AND/OR QUANTITIES FOR THIS CONTRACT. SUCH LOCATION OR QUANTITY ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. NO ITEM PRICES ARE TO BE RENEGOTIATED DUE TO EITHER AN INCREASE OR DECREASE IN QUANTITY USAGE RESULTING FROM ADDITION OR DELETION OF LOCATIONS.

IN ALL CASES MAINTENANCE OF TRAFFIC WILL BE PAID FOR AT EACH AND EVERY LOCATION UNLESS THE ITEM IS DEEMED NOT NECESSARY AND IS NOT UTILIZED AT A PARTICULAR LOCATION OR UNLESS AS NOTED ON THE LOCATION SHEET.

THE DISTRICT RESERVES THE RIGHT TO PRIORITIZE, SUBSTITUTE, ADD, OR DELETE LOCATIONS AT ANYTIME DURING THE CONTRACT.

3. LOCATION LISTINGS INDICATE GENERAL LIMITS OF CONSTRUCTION, MAJOR TYPES OF IMPROVEMENTS, AND ESTIMATED QUANTITIES. DURING THE BIDDING PERIOD, ANY QUESTIONS PERTAINING TO LOCATIONS SHALL BE DIRECTED TO THE CONTRACT ADMINISTRATOR. AFTER THE AWARD, SUCH QUESTIONS SHALL BE REFERRED TO THE APPROPRIATE DISTRICT ENGINEER OR HIS REPRESENTATIVE.

4. THE CONTRACTOR SHALL PROVIDE ALL RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH A MINIMUM 48 HR. PRIOR WRITTEN NOTICE FOR THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES, CONTRACTOR NAME & ADDRESS, AND DELDOT CONTACT NUMBERS. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED.

5. THE CONTRACTOR SHALL SUBMIT THE REQUIRED COPIES OF A DETAILED PROGRESS SCHEDULE (PSC) AS OUTLINED IN STANDARD SPECIFICATION 108.04 PRIOR TO BEGINNING WORK ON A WORK ORDER GROUP. DETAILS SHALL INCLUDE A DESCRIPTION OF EACH WORK ACTIVITY, THE PLANNED DAYS OF WORK, MULTIPLE CREWS OR SHIFTS, AND SCHEDULED WORKING HOURS. DURING THE CONTRACT, THE CONTRACTOR SHALL SUBMIT A TWO-WEEK (OR AS REQUIRED) "LOOK AHEAD" SCHEDULE TO THE AREA ENGINEER/MANAGER NO LATER THAN NOON OF EACH WEDNESDAY. FAILURE TO COMPLY WILL RESULT IN A SUSPENSION OF ALL CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

UNLESS OTHERWISE NOTED ON THE PLANS THE CONTRACTOR SHALL, AS PART OF HIS PROJECT SCHEDULE, SUBMIT TO THE ENGINEER AN ESTIMATE OF THE MONTHLY PAYMENTS EXPECTED TO BE RECEIVED ON THE CONTRACT. THIS WILL BE REFERENCED AS THE "MONTHLY PAYMENT CHART".

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NOTES

A CHART IN MICROSOFT EXCEL, MICROSOFT WORD, OR HAND WRITTEN FORMAT WILL BE ACCEPTABLE FOR THIS PURPOSE. THE CHART SHOULD INCLUDE, AS A MINIMUM, COLUMNS FOR THE MONTH, YEAR, AND ESTIMATED MONTHLY PAYMENTS. THE TOTAL OF ALL ESTIMATED PAYMENTS SHOULD EQUAL THE AWARDED CONTRACT TOTAL BID PRICE.

THE ENGINEER MAY REQUEST AN UPDATED "MONTHLY PAYMENT CHART" AT HIS DISCRETION, DEPENDING ON THE ACCURACY OF THE INITIAL ESTIMATES AND ACCORDING TO THE OVERALL NEEDS OF THE DEPARTMENT.

THE "MONTHLY PAYMENT CHART" WILL NOT BE CONSIDERED A BINDING DOCUMENT BY EITHER THE CONTRACTOR OR THE DEPARTMENT AND IS CONSIDERED SOLELY INFORMATIONAL.

THE COST TO PREPARE AND UPDATE THE "MONTHLY PAYMENT CHART" SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 763000 – INITIAL EXPENSE.

**MAINTENANCE OF TRAFFIC AND PAVEMENT MARKINGS**

6. AT THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS (INCLUDING BUT NOT LIMITED TO EXISTING STRIPING LENGTHS, LANE AND SHOULDER WIDTHS, TURN LANE LENGTHS, LOCATIONS OF STOP BARS, TURN ARROWS, CROSSWALKS AND RAILROAD CROSSINGS) THAT DEPICT THE EXISTING PAVEMENT MARKINGS FOR EACH PROJECT LOCATION. THESE DRAWINGS WILL BE REVIEWED BY THE DEPARTMENTS TRAFFIC SECTION TO DETERMINE IF ANY CHANGES TO THE FINAL PAVEMENT MARKINGS ARE REQUIRED. FINAL PAVEMENT MARKINGS SHALL CONFORM TO ALL EXISTING PATTERNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE FINAL PAVEMENT MARKINGS SHALL BE PLACED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER THE PLACEMENT OF THE FINAL COURSE OF MICROSURFACE. FAILURE TO COMPLY WILL RESULT IN SUSPENSION OF ALL OTHER CONTRACT WORK WITH TIME CHARGES CONTINUING TO BE ASSESSED.

THE DEPARTMENT WILL PROVIDE A STRIPING LAYOUT AT LOCATIONS WHERE NO PAVEMENT MARKINGS PREVIOUSLY EXISTED. IF DEPARTMENT FORCES MUST PROVIDE A STRIPING LAYOUT ON LOCATIONS WHERE MARKINGS PREVIOUSLY EXISTED, THEN THE CONTRACTOR SHALL REIMBURSE THE DEPARTMENT FOR THE LAYOUT COSTS.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHITE EDGE LINES SHALL WRAP AROUND THE RADIUS OF ALL SIDE STREETS AND MAJOR COMMERCIAL ENTRANCES TO A TANGENT POINT. YELLOW CENTERLINES SHALL BE CONTINUOUS AROUND MEDIAN ISLANDS. ALL DOUBLE YELLOW CENTERLINES SHALL BE PLACED IN A 4-6-4 CONFIGURATION. (2 EACH, 4" YELLOW STRIPES WITH A 6" GAP IN BETWEEN.

THE CONTRACTOR SHALL BE REQUIRED TO SHOW PROOF THAT HE HAS SUFFICIENT APPROVED STRIPING MATERIALS ON HAND TO ENSURE STRIPING IS COMPLETED PRIOR TO FULL OPENING OF THE ROADWAY TO TRAFFIC.

7. ANY ERRONEOUS MARKING WILL NOT BE PAID FOR AND SHALL BE CORRECTED IMMEDIATELY AT THE CONTRACTORS EXPENSE. ERRONEOUS MARKINGS OR SHADOWS THAT EXCEED ONE (1) INCH IN WIDTH SHALL BE REMOVED BY EITHER SAND OR WATER BLASTING AS DIRECTED BY THE ENGINEER. NO OTHER REMOVAL METHODS WILL BE ALLOWED. A FLAT BLACK PAINT OR DRIVEWAY SEALER SHALL BE APPLIED IN THE AREA OF THE REMOVED MARKING TO MASK THE REPAIR. ANY DAMAGE TO



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THE PAVEMENT CAUSED BY REMOVAL OF ERRONEOUS MARKINGS SHALL BE REPAIRED / REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTORS EXPENSE.

8. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY STRIPING SHALL BE UTILIZED AT LOCATIONS THAT REQUIRE PERMANENT STRIPING. TEMPORARY PAVEMENT STRIPING MUST MATCH PERMANENT PAVEMENT STRIPING IN ALL REGARDS. TEMPORARY PAVEMENT MARKINGS SHALL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY MARKINGS IN GOOD CONDITION SUCH THAT THE PAVEMENT IS PROPERLY DELINEATED AT ALL TIMES. ANY REFRESHING OF THE TEMPORARY MARKINGS WILL BE AT THE CONTRACTORS EXPENSE.

9. ALL WORK SHALL BE PERFORMED IN A MANNER THAT WILL REASONABLY PROVIDE THE LEAST PRACTICABLE OBSTRUCTION TO ALL ROAD USERS, INCLUDING VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC, AND SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT FOR BIDS.

10. ALL TEMPORARY TRAFFIC CONTROL DEVICES USED ON ALL HIGHWAYS OPEN TO THE PUBLIC IN THIS STATE SHALL CONFORM TO THE REQUIREMENTS OF THE DELAWARE MUTCD AND THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AS DEFINED IN SECTION 6A OF THE DELAWARE MUTCD. THE CONTRACTOR SHALL SUBMIT CERTIFICATION FOR TRAFFIC CONTROL DEVICES USED SPECIFICALLY ON THIS PROJECT PRIOR TO THE PRECONSTRUCTION MEETING. THE DEVICES SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER PRIOR TO USE AND SHALL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONTRACT.

11. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, INCLUDING THE NECESSARY NCHRP 350 CERTIFICATIONS FOR ALL DEVICES THAT WILL BE UTILIZED INCLUDING DEVICES UTILIZED BY SUBCONTRACTORS, FOR EACH TRAFFIC CONTROL CASE ANTICIPATED BEFORE THE START OF THE PRE-CONSTRUCTION MEETING. WRITTEN APPROVAL MUST BE RECEIVED BEFORE THE START OF WORK AT EACH AND EVERY LOCATION.

AN ADDITIONAL PLAN DETAILING THE NUMBER OF ANTICIPATED FLAGGERS AND THEIR PROPOSED LOCATIONS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING WORK AT EACH LOCATION.

CASE 6 IN THE TRAFFIC CONTROL MANUAL SHALL PRIMARILY BE USED FOR PREPARATION OF THE ROADWAY AND PLACEMENT OF THE MICROSURFACING. USE OF A TRUCK MOUNTED ATTENUATOR (TMA) MAY BE REQUIRED FOR THIS CASE. THE COST OF FURNISHING THE TMA SHALL BE INCIDENTAL TO THE PRICE BID FOR ITEM 763606. NO SEPARATE PAYMENT SHALL BE MADE FOR THE TMA.

CASE 17A IN THE TRAFFIC CONTROL MANUAL SHALL APPLY WHEN WORKING IN THE PRESENCE OF A RAILROAD CROSSING. USE OF A TRUCK MOUNTED ATTENUATOR MAY BE REQUIRED FOR THIS CASE. THE COST OF FURNISHING THE TMA SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS. NO SEPARATE PAYMENT SHALL BE MADE FOR THE TMA.

CASE 23A IN THE TRAFFIC CONTROL MANUAL SHALL APPLY FOR ALL STRIPING OPERATIONS. TMA'S REQUIRED FOR THIS OPERATION SHALL BE INCIDENTAL TO THE PRICE BID FOR THE RESPECTIVE STRIPING ITEM.

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NOTES

ITEM 763606 MAINTENANCE OF TRAFFIC TWO LANE TWO WAY WITH LANE CLOSURE SHALL ONLY BE PAID ONE TIME PER ROADWAY LOCATION REGARDLESS OF CASE AND WHETHER OR NOT BOTH LANES WILL HAVE TO BE SEQUENCED FOR CLOSURE OR REGARDLESS OF THE NUMBER OF TRAFFIC CASES REQUIRED TO PERFORM THE WORK. MAINTENANCE OF TRAFFIC WILL BE PAID FOR AT EACH AND EVERY LOCATION UNLESS; IF MAINTENANCE OF TRAFFIC IS DEEMED NOT NECESSARY BY THE ENGINEER AND IS NOT UTILIZED AT THAT PARTICULAR LOCATION. NO PAYMENT WILL BE MADE FOR THAT LOCATION IN THE CASE OF A PARTICULAR OPEN-END PATCHING LOCATION.

12. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND ALONG PEDESTRIAN FACILITIES AT ALL TIMES DURING CONSTRUCTION. EARTH, STONE, AND GRAVEL SURFACES ARE NOT ACCEPTABLE FOR PROVIDING PEDESTRIAN ACCESS. WHERE PEDESTRIAN ROUTES ARE CLOSED OR BLOCKED, ALTERNATE PEDESTRIAN ACCESS SHALL BE PROVIDED USING CASE 16 OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR TO THE SATISFACTION OF THE ENGINEER. PEDESTRIAN DETOUR ROUTES OR ALTERNATE PEDESTRIAN FACILITIES SHALL CONSIST OF ADA COMPLIANT FACILITIES TO THE LEVEL OF WHICH EXIST ON THE EXISTING PEDESTRIAN ROUTE. THE COSTS FOR ANY PROVISIONS SHALL BE INCIDENTAL TO ITEM 763606.

**PROJECT**

13. UNLESS SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

14. ITEM 403511 HAS BEEN ADDED TO SOME LOCATIONS AS A CONTINGENCY ITEM AND MAY OR MAY NOT BE USED FOR THAT ACTUAL LOCATION. IT IS ANTICIPATED THAT THE ITEM SHALL BE NECESSARY FOR USE IN LOCATIONS WHERE AN EXISTING UNEVEN PAVEMENT REQUIRES A LEVELING COURSE PRIOR TO PLACEMENT OF ITEM 403510 OR 403512.

15. THE DEPARTMENT RESERVES THE RIGHT TO SUBSTITUTE EITHER OF THE PROPOSED QUANTITIES FOR ITEMS 403510 AND 403512 IN LIEU OF EACH OTHER OR, ALL LOCATIONS MAY UTILIZE ITEM 403510 IN WHICH CASE THERE WILL BE NO USE OF ITEM 403512 IN THE CONTRACT OR VICE VERSA.

16. THE COST OF CLIPPING THE EDGES BACK, PICKING UP AND DISPOSING OF EXCESS SOD AND SWEEPING AND CLEANING EXISTING PAVEMENT PRIOR TO OVERLAYS SHALL BE INCIDENTAL TO THE PRICE BID FOR ITEMS 403510, 403511, OR 403512.

17. IF THE CONTRACTOR ELECTS TO UTILIZE A CONTINUOUS FEED MACHINE (SUBJECT TO PRIOR APPROVAL FOR THAT PARTICULAR LOCATION BY THE DEPARTMENT), THE MACHINE MUST FIRST BE CALIBRATED TO THE SATISFACTION OF THE ENGINEER AND A TEST STRIP SHALL THEN BE APPLIED TO DETERMINE THE ACTUAL MAXIMUM ALLOWABLE SPEED OF THE MACHINE DURING MATERIAL APPLICATION.

18. THE CONTRACTOR SHALL SUPPLY THE PROJECT MANAGER WITH CERTIFIED WEIGHT TICKETS FOR ALL AGGREGATE, MINERAL FILLER, AND EMULSION DELIVERED TO THE JOB SITE. THESE TICKETS WILL BE CHECKED AGAINST THE AS MEASURED YIELDS TO ENSURE FINAL YIELDS MEET THOSE AS STATED IN THE SPECIFICATION.

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NOTES

19. THE ENGINEER MAY DETERMINE THAT A SINGLE 20 POUND PER SQUARE YARD LIFT WILL SUFFICE FOR A PARTICULAR ROADWAY SECTION. IN THIS CASE, MEASUREMENT FOR PAYMENT SHALL BE MADE AT A 2 TO 3 RATIO (67%) OF THE ACTUAL SQUARE YARDS PLACED.

20. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 105.09 UTILITIES, DELAWARE STANDARD SPECIFICATIONS, AUGUST 2001. THE CONTRACTOR SHALL CONTACT MISS UTILITY (1-800-282-8555) TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPORT AND PROTECTION OF ALL UTILITIES WHEN EXCAVATING. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER CLEARANCES, INCLUDING SAFELY CLEARANCES, FROM OVERHEAD UTILITIES FOR CONSTRUCTION EQUIPMENT. THE CONTRACTOR IS ADVISED TO CHECK THE SITE FOR ACCESS PURPOSES FOR HIS EQUIPMENT AND, IF NECESSARY, MAKE ARRANGEMENTS DIRECTLY WITH THE UTILITY COMPANIES FOR FIELD ADJUSTMENTS FOR ADEQUATE CLEARANCES.

21. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT AND RELOCATED POSITIONS AS SHOWN ON THE PLANS OR DESCRIBED IN THE UTILITY STATEMENT OR ARE READILY DISCERNIBLE AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE DUE TO ANY INTERFERENCE FROM THE UTILITY FACILITIES AND APPURTENANCES OR THE OPERATION OF MOVING THEM, EXCEPT THAT THE CONTRACTOR MAY BE GRANTED AN EQUITABLE EXTENSION OF TIME.

22. COORDINATION AND COOPERATION AMONG THE UTILITY COMPANIES AND THE STATE'S CONTRACTOR ARE OF PRIME IMPORTANCE. THEREFORE, THE CONTRACTOR IS DIRECTED TO CONTACT THE FOLLOWING UTILITY COMPANY REPRESENTATIVES WITH ANY QUESTIONS REGARDING THIS WORK PRIOR TO SUBMITTING BIDS AND WORK SCHEDULES. PROPOSED WORK SCHEDULES SHOULD REFLECT THE UTILITY COMPANIES' PROPOSED RELOCATIONS. THE UTILITY COMPANIES DO NOT WORK ON WEEKENDS OR LEGAL HOLIDAYS.

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LOCATION 1            103(HOURLASS RD) FROM RD 50 TO RD 47, DE 11

LENGTH        3910.584 m                      12830 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 1

|        |  |                |
|--------|--|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED  | 28,512.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                     | 109.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME           | 16.00 HOUR     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                      | 51,320.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4" | 25,660.00 L.F. |
| 763643 | MAINTENANCE OF TRAFFIC, ALL INCLUSIVE              | 1.00 L.S.      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 2            104(KENTON RD) FROM RD 158 TO RD 45, DE 42

LENGTH            5890.26 m                            19325 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 2

|        |   |                 |
|--------|---|-----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 60,779.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 240.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 36.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 156,288.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 78,144.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 3                      107(BARKERS LANDING RD) FROM RD 27, US 113-A TO RD 364

LENGTH      1834.5912 m                      6019 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 3

|        |  |                |
|--------|--|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED              | 13,376.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 50.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 8.00 HOUR      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 35.00 S.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 48,152.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 70.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 24,076.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 4            125(DUNDEE RD) FROM RD 54 DE 10-A TO RD 53 DE 10

LENGTH    2784.0432 m            9134 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 4

|        |   |                |
|--------|---|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 24,358.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 94.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 14.00 HOUR     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 36,536.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 18,268.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 5            142(HOPEWELL DR) FROM RD 140 TO RD 94

LENGTH    1432.2552 m            4699 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 5

|        |   |                |
|--------|---|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 10,443.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 39.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 6.00 HOUR      |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM



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LOCATION 6            143(LION HOPE RD) FROM RD 41 DE 300 TO RD 95

LENGTH        2961.132 m                      9715 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 6

|        |   |                |
|--------|---|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 21,589.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 86.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 13.00 HOUR     |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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**LOCATION 7                      16(BROADKILL RD) FROM S14/ RT 1 (COASTAL HWY TO END**

**LENGTH      6340.7544 m                      20803 L.F.                      AADT    1517**

**GENERAL IMPROVEMENTS  
                    MICROSURFACING**

**COMMENTS:**

No work may be done Friday through Monday during the summer at the intersection of DE 1 and DE 16.

**MATERIAL ESTIMATE FOR LOCATION    7**

|               |   |                        |
|---------------|---|------------------------|
| <b>403510</b> | <b>POLYMER-MODIFIED EMULSION MICRO-SURFACING</b>                      | <b>61,965.00 S.Y.</b>  |
| <b>743052</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE</b>                               | <b>128.00 HOUR</b>     |
| <b>743064</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME</b>                     | <b>23.00 HOUR</b>      |
| <b>748015</b> | <b>PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC</b> | <b>955.00 S.F.</b>     |
| <b>748019</b> | <b>TEMPORARY MARKINGS, PAINT, 4"</b>                                  | <b>132,070.00 L.F.</b> |
| <b>748026</b> | <b>TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND</b>                        | <b>955.00 S.F.</b>     |
| <b>748502</b> | <b>RAISED/RECESSED PAVEMENT MARKER</b>                                | <b>307.00 EACH</b>     |
| <b>748506</b> | <b>PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"</b>             | <b>66,035.00 L.F.</b>  |
| <b>763606</b> | <b>MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE</b>    | <b>1.00 EACH</b>       |
| <b>763632</b> | <b>REMOVAL OF RAISED PAVEMENT MARKER</b>                              | <b>307.00 EACH</b>     |

**\*\* DENOTES FIXED PRICE ITEM**

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LOCATION 8                    181(LEAGER RD) FROM RD 182 TO RD 47, DE 11

LENGTH            515.112 m                    1690 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 8

|        |   |               |
|--------|---|---------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 4,130.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 20.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 3.00 HOUR     |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 9                      182(SLAUGHTER STATION RD) FROM RD 50, DE 8 TO RD 49, DE 44, MAIN STREET

LENGTH      4345.2288 m                      14256 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 9

|        |   |                |
|--------|---|----------------|
| 403511 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 500.00 TON     |
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 34,848.00 S.Y. |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 26.00 HOUR     |
| 743501 | WARNING LIGHTS , TYPE B                                     | 175.00 EA-DY   |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 56,390.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 28,195.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 10      22(NORTHWEST FRONT ST) FROM RD 8 RT 113 TO RD 21

LENGTH      2333.5488 m      7656 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 10

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 33,024.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 130.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 20.00 HOUR     |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 348.50 S.F.    |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 61,248.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 697.00 S.F.    |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 30,624.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 11      238(RURITAN LA) FROM TOWN LIMITS CHANGE - EAST VIOLA TO RD 32

LENGTH      579.4248 m      1901 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 11

|        |   |                |
|--------|---|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 4,224.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 17.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 3.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 15,200.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 7,600.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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MICROSURFACING CENTRAL AND SOUTH, FY 2011

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LOCATION 12            246(BERRYTOWN RD) FROM RD 57, DE 12 TO JOINT 200' N OF RD 247

LENGTH    1561.1856 m                      5122 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 12

|        |   |                |
|--------|---|----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 12,907.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 70.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 10.00 HOUR     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 6,000.00 L.F.  |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 3,000.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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**MICROSURFACING CENTRAL AND SOUTH, FY 2011**

**LOCATION 13**                      **258(HUDSON RD) FROM S18/RT 9 (LEWES-GEORGETOWN HWY) TO S14/ RT 1  
(COASTAL HWY)**

**LENGTH**

**AADT    1747**

**GENERAL IMPROVEMENTS**

**MICROSURFACING**

**COMMENTS:**

No work may be done Friday through Monday during the summer at the intersections of DE 1 and Hudson Road and US 9/DE 404 and Hudson Road.

**MATERIAL ESTIMATE FOR LOCATION    13**

|               |   |                       |
|---------------|---|-----------------------|
| <b>403510</b> | <b>POLYMER-MODIFIED EMULSION MICRO-SURFACING</b>                              | <b>53,310.00 S.Y.</b> |
| <b>743052</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE</b>                                       | <b>128.00 HOUR</b>    |
| <b>743064</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME</b>                             | <b>23.00 HOUR</b>     |
| <b>748015</b> | <b>PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC</b>         | <b>550.00 S.F.</b>    |
| <b>748019</b> | <b>TEMPORARY MARKINGS, PAINT, 4"</b>  | <b>86,524.00 L.F.</b> |
| <b>748026</b> | <b>TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND</b>                                | <b>550.00 S.F.</b>    |
| <b>748506</b> | <b>PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"</b>                     | <b>43,262.00 L.F.</b> |
| <b>748553</b> | <b>PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL</b> | <b>4.00 EACH</b>      |
| <b>763606</b> | <b>MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE</b>            | <b>1.00 EACH</b>      |

**\*\* DENOTES FIXED PRICE ITEM**



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MICROSURFACING CENTRAL AND SOUTH, FY 2011

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LOCATION 14      26(SORGHUM HILL RD) FROM RD 362 TO RD 363

LENGTH

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 14

|        |   |               |
|--------|---|---------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 3,161.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 12.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 2.00 HOUR     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 6,864.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 3,432.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 15      267(GILLS NECK RD) FROM S268 (KINGS HWY) TO HAWKSEYE DEVELOPMENT

LENGTH      1386.84 m      4550 L.F.      AADT    1144

GENERAL IMPROVEMENTS  
MICROSURFACING

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 15

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 10,200.00 S.Y. |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                               | 85.00 HOUR     |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                     | 15.00 HOUR     |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 16.00 S.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 18,200.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 16.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 9,100.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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**MICROSURFACING CENTRAL AND SOUTH, FY 2011**

**LOCATION 16**      **318(PATROITS WAY) FROM HOT MIX JOINT NORTH OF RAILROAD TRACKS TO  
300' SOUTH OF S86 (AVENUE OF HONOR)**

**LENGTH**      1158.24 m      3800 L.F.      AADT   985

**GENERAL IMPROVEMENTS**  
MICRO SURFACE

**COMMENTS:**

There is a railroad crossing replacement project that will occur on Patriots Way in the near future.

**MATERIAL ESTIMATE FOR LOCATION 16**

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 8,900.00 S.Y.  |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                               | 128.00 HOUR    |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                     | 23.00 HOUR     |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 86.00 S.F.     |
| 748016 | PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 8"           | 7,600.00 L.F.  |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 15,200.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 17      331(DYKE BRANCH RD) FROM RD 330, EAST DENNYS RD TO RD 15, DE 9

LENGTH      1287.4752 m      4224 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 17

|        |   |                 |
|--------|---|-----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 40,832.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 157.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 24.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 122,496.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 61,248.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 18            337(PERSIMMON TREE LA) FROM RD 88 TO RD 15 DE 9

LENGTH    2880.6648 m                      9451 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 18

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 35,442.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 137.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 21.00 HOUR     |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 465.00 S.F.    |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 81,944.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 93.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 40,972.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 19            341(LONG POINT RD) FROM RD 16 DE 8 TO PAVEMENT JOINT

LENGTH    1464.2592 m                      4804 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 19

|        |   |               |
|--------|---|---------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 7,697.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 31.00 HOUR    |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 5.00 HOUR     |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 20                      353(BEECHWOOD AVE) FROM RD 16 DE 8 TO PAVEMENT JOINT

LENGTH            740.3592 m                      2429 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 20

|        |   |                |
|--------|---|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 9,152.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 35.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 5.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 16,472.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 8,236.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 21      355(NORTH OLD MILL RD) FROM RD 356 E.B., DE 10, LEBANON RD TO RD 27, U.S.  
113-A

LENGTH      96.6216 m      317 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 21

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 12,578.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 51.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 8.00 HOUR      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 15.50 S.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 14,152.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 31.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 7,076.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM



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LOCATION 22      370(DAISEY ROAD) FROM S382 (PYLE CENTER RD) TO S84 (BAYARD AVE)

LENGTH      4802.124 m      15755 L.F.      AADT   15775

GENERAL IMPROVEMENTS  
MICRO SURFACING

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 22

|        |  |                |
|--------|--|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 37,600.00 S.Y. |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                               | 102.00 HOUR    |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                     | 18.00 HOUR     |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 60.00 S.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 55,145.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 60.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 22,575.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 23            380(ANDREWS LAKE RD) FROM RD 383 TO RD 385

LENGTH        4828.032 m                      15840 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

---

MATERIAL ESTIMATE FOR LOCATION 23

|        |   |                 |
|--------|---|-----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED           | 38,720.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 200.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 30.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 126,720.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 63,360.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 24            388(CANTERBURY RD) FROM RD 36, DE 14 TO RD 34, DE 12

LENGTH    11168.7864 m                      36643 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

-Recommended work hours 9am-3pm. No work may be done on DE 15 Friday through Sunday during the summer.  
-There is a pipe crossing replacement project occurring on DE 15 just north of DE 12. Coordinate so that these two projects do not overlap.

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MATERIAL ESTIMATE FOR LOCATION 24

|        |  |                 |
|--------|--|-----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED              | 89,959.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 450.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 68.00 HOUR      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 101.00 S.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 294,412.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 202.00 S.F.     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 147,206.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 25            413(FIREMANS RD) FROM S419 (BETHEL RD) TO S417 (DAISEY RD)

LENGTH    3170.5296 m                      10402 L.F.            AADT    278

GENERAL IMPROVEMENTS  
MICROSURFACING

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 25

|        |   |                |
|--------|---|----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 22,780.00 S.Y. |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                            | 170.00 HOUR    |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                  | 30.00 HOUR     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 41,000.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 20,500.00 L.F. |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH      |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 26      44(BLACKISTON RD) FROM RD 39 TO COOPER ST

LENGTH      5665.0128 m      18586 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 26

|        |   |                 |
|--------|---|-----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 60,834.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 240.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 36.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 149,104.00 L.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER                             | 280.00 EACH     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 74,552.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |
| 763632 | REMOVAL OF RAISED PAVEMENT MARKER                           | 280.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 27      46(ARTHURSVILLE RD) FROM RD 48 TO RD 41

LENGTH      7000.6464 m      22968 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

No work is allowed the week before through the week after a NASCAR race at Dover Downs.

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MATERIAL ESTIMATE FOR LOCATION 27

|        |   |                 |
|--------|---|-----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 102,551.00 S.Y. |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 400.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 60.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 184,592.00 L.F. |
| 748502 | RAISED/RECESSED PAVEMENT MARKER                             | 306.00 EACH     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 92,296.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |
| 763632 | REMOVAL OF RAISED PAVEMENT MARKER                           | 306.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 28            47(ARTHURSVILLE RD) FROM MD LINE TO RD 48

LENGTH      4151.9856 m                      13622 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

No work is allowed the week before through the week after a NASCAR race at Dover Downs.

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MATERIAL ESTIMATE FOR LOCATION 28

|        |  |                 |
|--------|--|-----------------|
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED              | 60,542.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                                 | 237.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                       | 36.00 HOUR      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 70.00 S.F.      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 108,976.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 140.00 S.F.     |
| 748502 | RAISED/RECESSED PAVEMENT MARKER                                | 173.00 EACH     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 54,488.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH       |
| 763632 | REMOVAL OF RAISED PAVEMENT MARKER                              | 173.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM

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LOCATION 29      52(WESTVILLE RD) FROM RD 205 TO SOUTH MECHANIC ST

LENGTH      6501.6888 m      21331 L.F.

GENERAL IMPROVEMENTS  
MICROSURFACE

COMMENTS:

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MATERIAL ESTIMATE FOR LOCATION 29

|        |   |                 |
|--------|---|-----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                   | 79,364.00 S.Y.  |
| 743051 | ** FLAGGER, KENT COUNTY, STATE                              | 314.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                    | 47.00 HOUR      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                               | 150,376.00 L.F. |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"          | 75,188.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM



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**MICROSURFACING CENTRAL AND SOUTH, FY 2011**

**LOCATION 30                      60(CYPRESS RD) FROM S26 (MILLSBORO HWY) TO S417 (DAISY RD)**

**LENGTH            5026.152 m                      16490 L.F.            AADT    882**

**GENERAL IMPROVEMENTS  
MICROSURFACING**

**COMMENTS:**

**MATERIAL ESTIMATE FOR LOCATION 30**

|               |   |                        |
|---------------|---|------------------------|
| <b>403510</b> | <b>POLYMER-MODIFIED EMULSION MICRO-SURFACING</b>                      | <b>38,480.00 S.Y.</b>  |
| <b>743052</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE</b>                               | <b>213.00 HOUR</b>     |
| <b>743064</b> | <b>** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME</b>                     | <b>38.00 HOUR</b>      |
| <b>748015</b> | <b>PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC</b> | <b>16.50 S.F.</b>      |
| <b>748019</b> | <b>TEMPORARY MARKINGS, PAINT, 4"</b>                                  | <b>115,440.00 L.F.</b> |
| <b>748026</b> | <b>TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND</b>                        | <b>16.50 S.F.</b>      |
| <b>748502</b> | <b>RAISED/RECESSED PAVEMENT MARKER</b>                                | <b>206.00 EACH</b>     |
| <b>748506</b> | <b>PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"</b>             | <b>57,720.00 L.F.</b>  |
| <b>763606</b> | <b>MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE</b>    | <b>1.00 EACH</b>       |
| <b>763632</b> | <b>REMOVAL OF RAISED PAVEMENT MARKER</b>                              | <b>206.00 EACH</b>     |

**\*\* DENOTES FIXED PRICE ITEM**

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LOCATION 31      62(E. TRAP POND RD) FROM S24/ RT 24 (LAUREL RD) TO S20/ RT 20  
(HARDSCRABBLE RD)

LENGTH      9174.48 m      30100 L.F.      AADT      692

GENERAL IMPROVEMENTS  
MICROSURFACING

COMMENTS:

There is a pipe crossing replacement project occurring on Trap Pond Road just north of Shiloh Church. Coordinate with that project.

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MATERIAL ESTIMATE FOR LOCATION 31

|        |  |                 |
|--------|--|-----------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                      | 66,890.00 S.Y.  |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                               | 128.00 HOUR     |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                     | 23.00 HOUR      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC | 32.00 S.F.      |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"                                  | 120,400.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                        | 32.00 S.F.      |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"             | 60,200.00 L.F.  |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE    | 1.00 EACH       |

\*\* DENOTES FIXED PRICE ITEM

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CONTRACT QUANTITIES SUMMARY SHEET

|        |  |                   |
|--------|--|-------------------|
| 403510 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                              | 697,010.00 S.Y.   |
| 403511 | POLYMER-MODIFIED EMULSION MICRO-SURFACING                              | 500.00 TON        |
| 403512 | POLYMER-MODIFIED EMULSION MICRO-SURFACING, ROLLED                      | 392,137.00 S.Y.   |
| 743051 | ** FLAGGER, KENT COUNTY, STATE   | 3,119.00 HOUR     |
| 743052 | ** FLAGGER, SUSSEX COUNTY, STATE                                       | 1,082.00 HOUR     |
| 743063 | ** FLAGGER, KENT COUNTY, STATE, OVERTIME                               | 497.00 HOUR       |
| 743064 | ** FLAGGER, SUSSEX COUNTY, STATE, OVERTIME                             | 193.00 HOUR       |
| 743501 | WARNING LIGHTS , TYPE B  | 175.00 EA-DY      |
| 748015 | PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC         | 2,750.50 S.F.     |
| 748016 | PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 8"                   | 7,600.00 L.F.     |
| 748019 | TEMPORARY MARKINGS, PAINT, 4"  | 2,271,221.00 L.F. |
| 748026 | TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND                                | 2,862.50 S.F.     |
| 748502 | RAISED/RECESSED PAVEMENT MARKER  | 1,272.00 EACH     |
| 748506 | PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, 4"                     | 1,123,013.00 L.F. |
| 748553 | PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL | 4.00 EACH         |
| 763000 | INITIAL EXPENSE  | LUMP SUM          |
| 763606 | MAINTENANCE OF TRAFFIC, TWO LANE, TWO WAY WITH LANE CLOSURE            | 31.00 EACH        |
| 763632 | REMOVAL OF RAISED PAVEMENT MARKER                                      | 1,272.00 EACH     |

\*\* DENOTES FIXED PRICE ITEM